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DNA-PHONA-PNA chimeric molecules: contributions to

TITLE:

binding against complementary DNA

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Hoechst Marion Roussel Deutschland GmbH, Frankfurt,

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AB The synthesis of a DNA-phosphonate peptide nucleic acid analog (PHONA)-peptide nucleic acid (PNA) chimeric mol. using a monomethoxytrityl (Mmt) protection strategy is described. The chimeric oligomer shows duplex binding properties that are comparable to the corresponding PNA. Thus, PHONA building blocks can be incorporated into PNAs without distortion of the PNA structure.

IT 217636-83-4P 217636-84-5P 217636-85-6P

217636-86-7P 217636-87-8P 217636-88-9P

217636-89-0P 217636-90-3P 217636-91-4P

217636-92-5P 217636-93-6P 217636-94-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and DNA binding properties of DNA-peptide nucleic acid  
phosphonate analog-peptide nucleic acid chimeric mols.)

RN 217636-83-4 HCPLUS

CN DNA, d(C-G-A-C-C-A-A-G-A-T-G-T), complex with peptide nucleic acid  
(dA-dC-dA-dT-[(deamino)(oxy)]C-[(decarbonyl)(phosphinicoxy)]T-(deamino)T-  
G-G-T-C-G)-NH2 (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-84-5 HCPLUS

CN DNA, d(C-G-A-C-C-A-A-G-A-T-G-T), complex with peptide nucleic acid  
(dA-dC-dA-dT-[(deamino)(oxy)]C-T-T-G-G-T-C-G)-NH2 (1:1) (9CI) (CA INDEX  
NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-85-6 HCPLUS

CN DNA, d(A-C-A-T-C-T-T-G-G-T-C-G), double-stranded complementary (9CI) (CA  
INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-86-7 HCPLUS

CN DNA, d(C-G-A-C-C-T-A-G-A-T-G-T), complex with peptide nucleic acid  
(dA-dC-dA-dT-[(deamino)(oxy)]C-[(decarbonyl)(phosphinicoxy)]T-(deamino)T-  
G-G-T-C-G)-NH2 (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-87-8 HCPLUS

CN DNA, d(C-G-A-C-C-T-A-G-A-T-G-T), complex with peptide nucleic acid  
(dA-dC-dA-dT-[(deamino)(oxy)]C-T-T-G-G-T-C-G)-NH2 (1:1) (9CI) (CA INDEX  
NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-88-9 HCPLUS

Searched by Susan Hanley 305-4053

CN DNA, d(A-C-A-T-C-T-T-G-G-T-C-G), complex with DNA d(C-G-A-C-C-T-A-G-A-T-G-T) (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-89-0 HCPLUS

CN DNA, d(C-G-A-C-C-A-T-G-A-T-G-T), complex with peptide nucleic acid (dA-dC-dA-dT-[(deamino)(oxy)]C-[(decarbonyl)(phosphinicoxy)]T-(deamino)T-G-G-T-C-G)-NH2 (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-90-3 HCPLUS

CN DNA, d(C-G-A-C-C-A-T-G-A-T-G-T), complex with peptide nucleic acid (dA-dC-dA-dT-[(deamino)(oxy)]C-T-T-G-G-T-C-G)-NH2 (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-91-4 HCPLUS

CN DNA, d(A-C-A-T-C-T-T-G-G-T-C-G), complex with DNA d(C-G-A-C-C-A-T-G-A-T-G-T) (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-92-5 HCPLUS

CN DNA, d(C-G-A-C-C-T-T-G-A-T-G-T), complex with peptide nucleic acid (dA-dC-dA-dT-[(deamino)(oxy)]C-[(decarbonyl)(phosphinicoxy)]T-(deamino)T-G-G-T-C-G)-NH2 (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-93-6 HCPLUS

CN DNA, d(C-G-A-C-C-T-T-G-A-T-G-T), complex with peptide nucleic acid (dA-dC-dA-dT-[(deamino)(oxy)]C-T-T-G-G-T-C-G)-NH2 (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-94-7 HCPLUS

CN DNA, d(A-C-A-T-C-T-T-G-G-T-C-G), complex with DNA d(C-G-A-C-C-T-T-G-A-T-G-T) (1:1) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 217636-80-1P 217636-81-2P 217636-82-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and DNA binding properties of DNA-peptide nucleic acid phosphonate analog-peptide nucleic acid chimeric mols.)

RN 217636-80-1 HCPLUS

CN Peptide nucleic acid, (dA-dC-dA-dT-[(deamino)(oxy)]C-[(decarbonyl)(phosphinicoxy)]T-(deamino)T-G-G-T-C-G)-NH2 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-81-2 HCPLUS

CN Peptide nucleic acid, (dA-dC-dA-dT-[(deamino)(oxy)]C-T-T-G-G-T-C-G)-NH2 (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 217636-82-3 HCPLUS

CN DNA, d(A-C-A-T-C-T-T-G-G-T-C-G) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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